



## Phase Control - SCR (cont'd)

VDRM	IT Max Forward Current (Amps)										
	IT RMS - All Conduction Angles				IT Ave - Conduction Angle = 180°						
	RMS	40 A	50 A	55 A	80 A	125 A	275 A	470 A	550 A	850 A	1880 A
	Av.	25 A	32 A	35 A	50 A	80 A	175 A	300 A	350 A	550 A	1200 A
200					ECG5567	ECG5570	ECG5575	ECG5580	ECG5590		ECG5594
400				ECG5539							
600					ECG5568	ECG5572	ECG5577	ECG5582	ECG5591	ECG5587	ECG5595
800	ECG5536	ECG5538	ECG5540								
1200					ECG5569	ECG5574	ECG5579	ECG5584	ECG5592	ECG5589	ECG5596
IGT Min (mA)	40	80	40	100	100	100	150	150	150	150	200
VGT Max (V)	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
ISurge (A)	400	500	600	1200	1800	1800	5500	5500	10,000	10,000	27,000
IHold Min (mA)	60	150	60	200	200	200	300	300	300	300	500
VGFM (V)	10	10	10	20.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
VGRM (V)	10	5	5	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
VF on (V) Max	1.8	1.9	1.8	2.5	2.2	2.2	1.5	1.5	2.0	2.0	1.7
PG Av (W)	0.5	1.0	0.8	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Operating Temp. T <sub>J</sub> °C	-40 to +125	-40 to +125	-40 to +125	-40 to +125	-40 to +125		-40 to +125	-40 to +125	-40 to +125	-40 to +125	-40 to +125
dv/dt (Max) V/μsec	50	500	375	200	300	300	300	300	300	300	300
Non-Repetitive d <sub>i</sub> /d <sub>t</sub> Max Amps/μsec	--	--	--	200	800	800	800	800	800	600	800
Fig. No.	Z41	Z40A	Z40A	Z47	Z52	Z51	Z53	Z55	Z54	Z56	Z57
Package	TO-220	TO-218 Isolated Tab	TO-218	TO-65	TO-94	TO-83	TO-93	HT-16	ST-75	HT-23	HT-29

Package Outlines - See Page 1-110